

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13374122		
Frame	: 182/4JM	Cooling method	: IC411 - TEFC		
Insulation class	: F	Mounting	: F-1		
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 34.8 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0118 kgm ²		
Design	: B				
Output [HP]	1.5	1.5	1.5		
Poles	6	6	6		
Frequency [Hz]	60	50	50		
Rated voltage [V]	230/460	190/380	220/415		
Rated current [A]	4.44/2.22	5.18/2.59	4.73/2.51		
L. R. Amperes [A]	30.6/15.3	29.5/14.8	29.8/15.8		
LRC [A]	6.9x(Code K)	5.7x(Code H)	6.3x(Code J)		
No load current [A]	2.73/1.36	2.69/1.34	2.74/1.46		
Rated speed [RPM]	1170	955	960		
Slip [%]	2.50	4.50	4.00		
Rated torque [kgfm]	0.930	1.14	1.13		
Locked rotor torque [%]	240	190	220		
Breakdown torque [%]	340	260	290		
Service factor	1.15	1.15	1.15		
Temperature rise	80 K	80 K	80 K		
Locked rotor time	99s (cold) 55s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)		
Noise level ²	52.0 dB(A)	50.0 dB(A)	50.0 dB(A)		
Efficiency (%)	25%	82.8	84.4	83.2	
	50%	84.0	84.2	83.5	
	75%	86.5	85.6	85.5	
	100%	87.5	84.9	85.4	
Power Factor	25%	0.29	0.34	0.31	
	50%	0.50	0.58	0.54	
	75%	0.63	0.70	0.66	
	100%	0.71	0.76	0.74	
Bearing type	: <u>Drive end</u> 6207 ZZ	<u>Non drive end</u> 6205 ZZ	Foundation loads		
Sealing	: V'Ring	Without Bearing Seal	Max. traction	: 51 kgf	
			Max. compression	: 86 kgf	
Lubrication interval	: -	-			
Lubricant amount	: -	-			
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V 4.91A SF 1.00 SFA 4.91A					
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.			These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	16/05/2022			1 / 4	

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Three Phase Induction Motor - Squirrel Cage

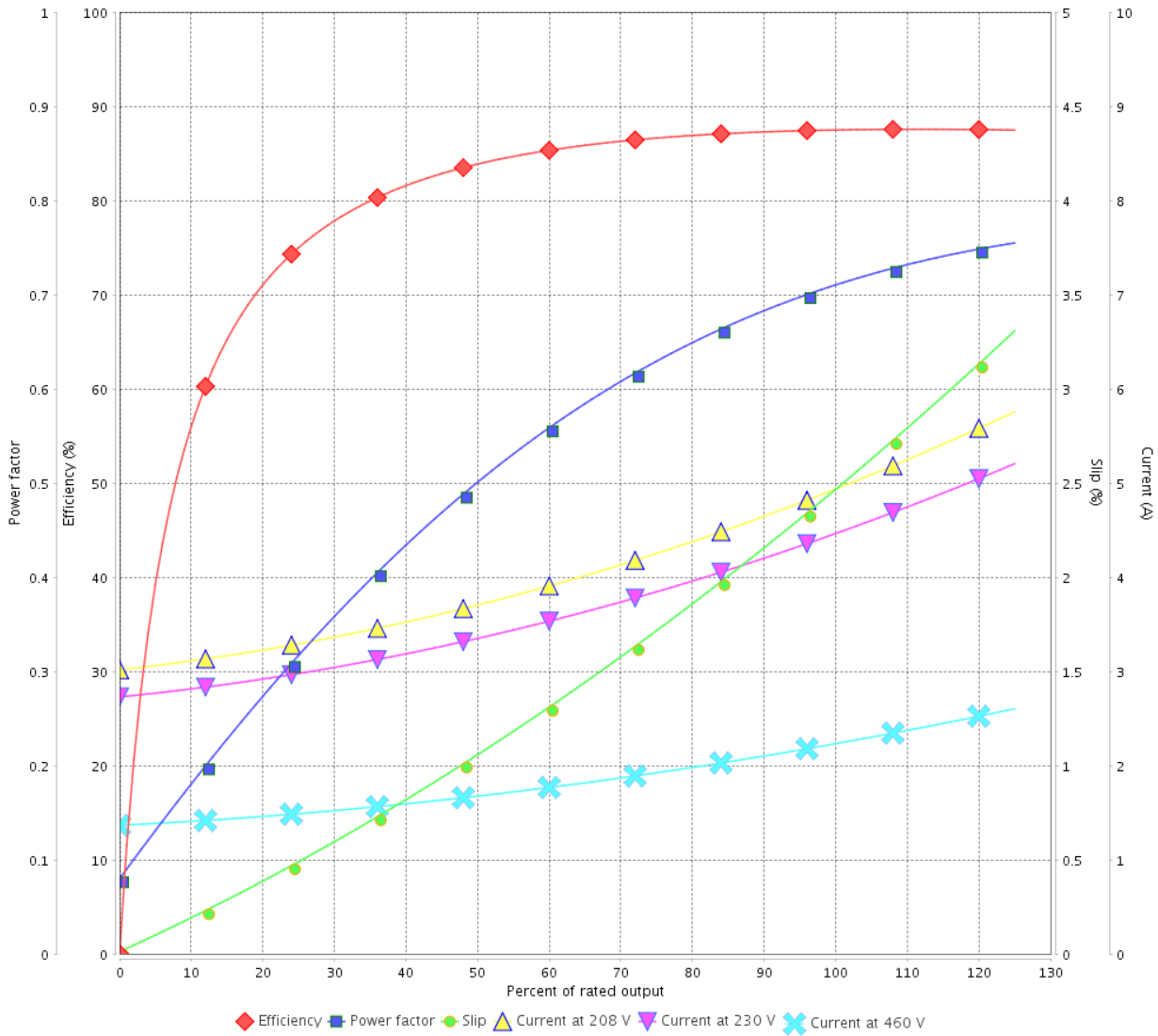


Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13374122

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Performance : 230/460 V 60 Hz 6P

Rated current : 4.44/2.22 A
 LRC : 6.9
 Rated torque : 0.930 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 340 %
 Rated speed : 1170 rpm

Moment of inertia (J) : 0.0118 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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Date				

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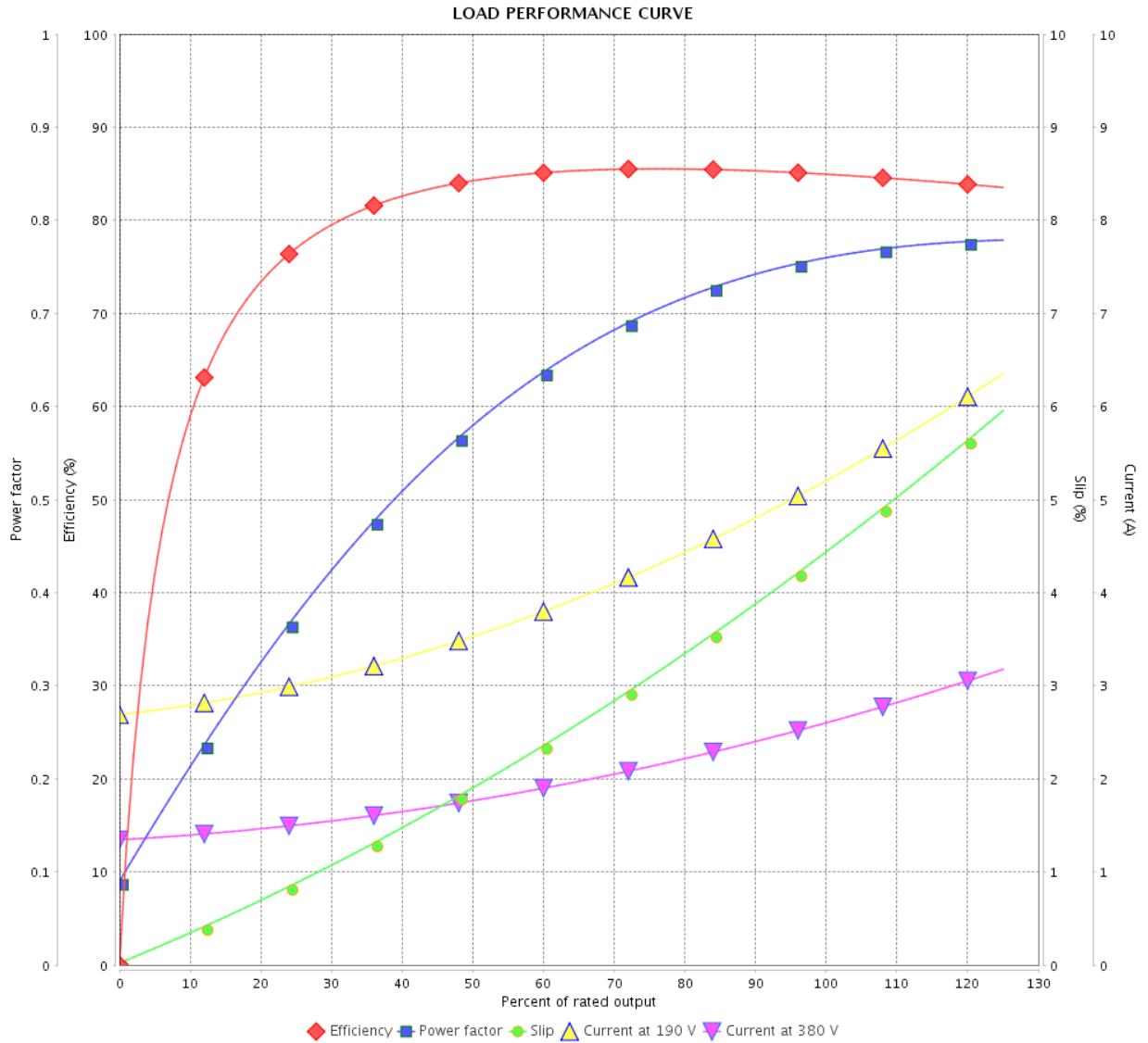
Three Phase Induction Motor - Squirrel Cage



Customer :

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Product code : 13374122



Performance : 190/380 V 50 Hz 6P

Rated current : 5.18/2.59 A
 LRC : 5.7
 Rated torque : 1.14 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 260 %
 Rated speed : 955 rpm

Moment of inertia (J) : 0.0118 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

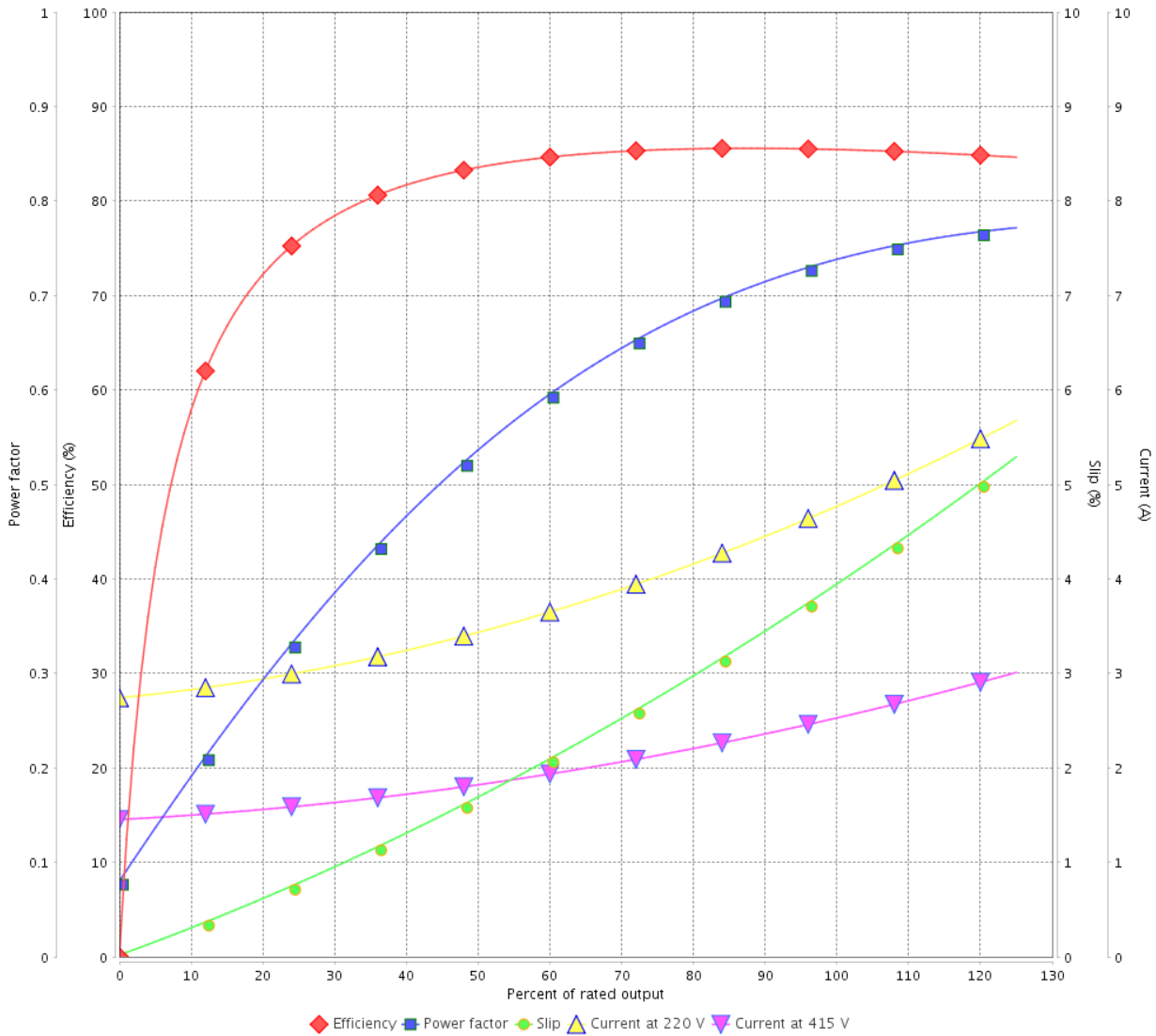


Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13374122

LOAD PERFORMANCE CURVE



Performance : 220/415 V 50 Hz 6P

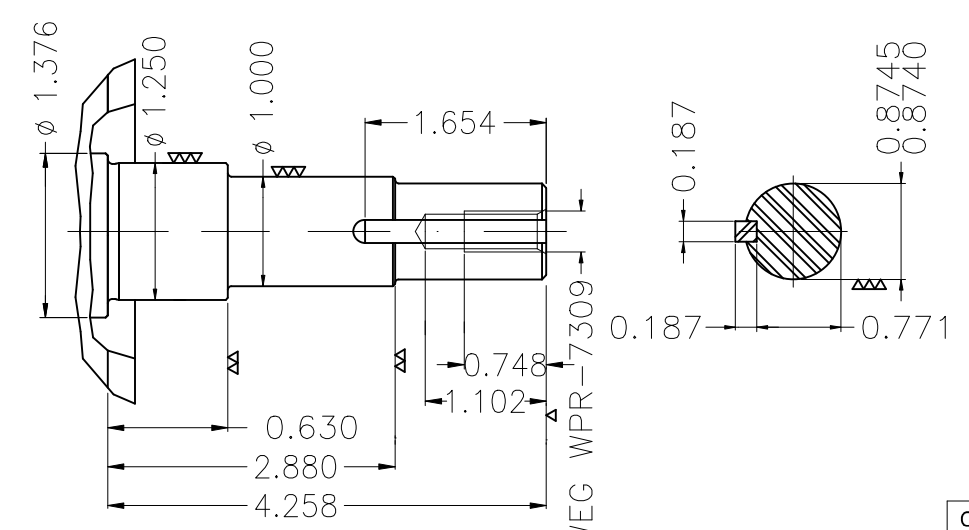
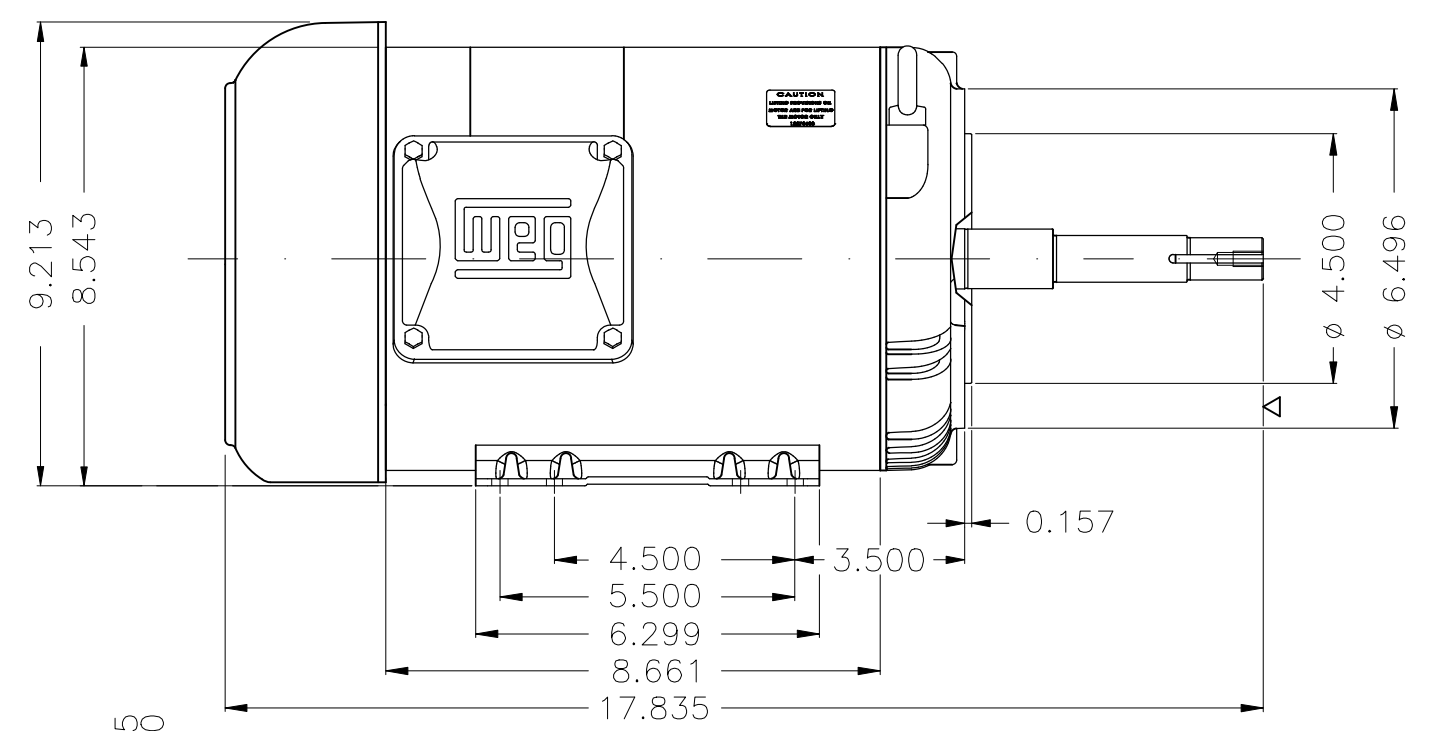
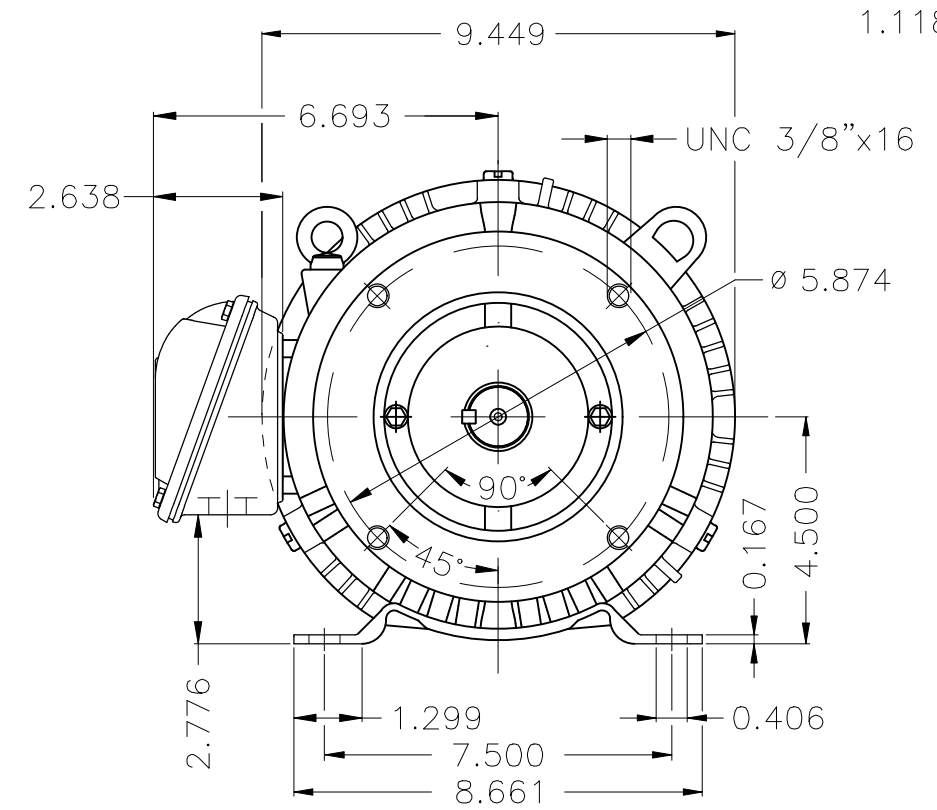
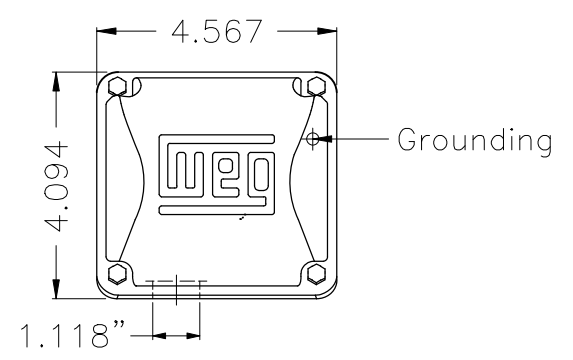
Rated current : 4.73/2.51 A
LRC : 6.3
Rated torque : 1.13 kgfm
Locked rotor torque : 220 %
Breakdown torque : 290 %
Rated speed : 960 rpm

Moment of inertia (J) : 0.0118 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
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Date				

1 2 3 4 5 6

A
B
C
D
E



EUNC 3/8" - 16 WEG WPR-7309

DE Shaft End

Color Munsell N 1 matte black											
Painting plan 207N											
Mounting B34D											
								HYBRISUSER		00	
ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL JM NEMA PREM. EFF. FRAME 182/4JM IP55 TEFC					PREVIEW				
CHECKED							WDD		00		
RELEASED							SHEET		1 / 1		
REL. DATE		WMO	Jaragua do Sul	Product Engineering							

1.5 HP 06 Poles 60 Hz